

Claims

Claims 1 through 3: *Canceled*

Claim 4. (*Currently amended*) A magnetic recording disk comprising:

a substrate; and

a magnetic recording layer on the substrate and comprising:

a first Co-alloy ferromagnetic film on the substrate and having a magnetic moment per unit area,

an antiferromagnetically coupling film on the first ferromagnetic film and formed of a material consisting essentially of Ru and Fe and having a composition $Ru_{100-x}Fe_x$ wherein x is between approximately 10 and approximately 60 atomic percent, and

a second Co-alloy ferromagnetic film having a magnetic moment per unit area different from the moment per unit area of the first ferromagnetic film and being formed on the antiferromagnetically coupling film, the second ferromagnetic film being exchange coupled antiferromagnetically to the first ferromagnetic film across the antiferromagnetically coupling film, ~~the antiferromagnetically coupling film being formed of a material consisting essentially of Ru and Fe and having a composition $Ru_{100-x}Fe_x$ wherein x is between approximately 10 and approximately 60 atomic percent~~

a nonmagnetic spacer film that does not provide antiferromagnetic coupling on the second ferromagnetic film, and

a third ferromagnetic film on said nonmagnetic spacer film.

Claim 5: *Canceled*